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TITLE : ANTI-CLOUDING ARTICLE AND ITS PRODUCTION

ABSTRACT : PURPOSE: To ensure anti-clouding performance excellent in connective property, stain resistance property and resistance to scorching due to water without deteriorating the optical characteristics or wear resistance of the article by forming a titanium oxide-based layer on the surface of the article.

CONSTITUTION: A titanium oxide-based layer is formed on the surface of an article by vacuum deposition, sputtering, CVD or a sol-gel method. A metal such as Pt is preferably added to the titanium oxide-based layer. By the added metal, a small photoelectrochemical cell is formed, oxidizing power is increased and fog resistance ability is also enhanced. Since titanium oxide having photocatalytic action is allowed to exist on the surface of the article, even when mist sticks to the surface owing to a temp. or humidity difference, it is readily degraded by natural light and mist causing fogging does not grow. Since titanium oxide itself is harder than resin, the wear resistance of the article is not deteriorated.

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